

CLAIM AMENDMENT

Please cancel claims 4 and 26. Please amend the claims as follows:

1. (Previously presented): A seed of the corn variety I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493.
2. (Previously presented): A population of seed of the corn variety I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493.
3. (Currently amended): ~~The population of seed of claim 2, further defined as a~~An essentially homogeneous population of seed consisting essentially of the seed of claim 1.
4. (Canceled)
5. (Previously presented): A corn plant produced by growing a seed of the corn variety I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493.
6. (Canceled)
7. (Original): A plant part of the corn plant of claim 5.
8. (Original): The plant part of claim 7, further defined as pollen.
9. (Original): The plant part of claim 7, further defined as an ovule.
10. (Original): The plant part of claim 7, further defined as a cell.
11. (Canceled)

12. (Original): A seed comprising the cell of claim 10.
13. (Original): A tissue culture comprising the cell of claim 10.
14. (Currently amended): An essentially homogeneous population of corn plants produced by growing a population of corn seed consisting essentially of the seed of the corn variety I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493.
15. (Previously presented) A corn plant expressing all the physiological and morphological characteristics of the corn variety I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493.
16. (Canceled)
17. (Previously presented) A tissue culture of regenerable cells of a plant of corn variety I390185, wherein the tissue regenerates plants expressing all the physiological and morphological characteristics of the corn variety I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493.
18. (Original): The tissue culture of claim 17, wherein the regenerable cells comprise cells derived from embryos, immature embryos, meristematic cells, immature tassels, microspores, pollen, leaves, anthers, roots, root tips, silk, flowers, kernels, ears, cobs, husks, or stalks.
19. (Original): The tissue culture of claim 18, wherein the regenerable cells comprise protoplasts or callus cells.
20. (Previously presented) A corn plant regenerated from the tissue culture of claim 17, wherein the corn plant expresses all of the physiological and morphological characteristics of the

corn variety designated I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493.

21. (Previously presented): A process of producing corn seed, comprising crossing a first parent corn plant with a second parent corn plant, wherein one or both of the first or the second parent corn plant is a plant of the corn variety I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493, wherein seed is allowed to form.

22. (Previously presented): The process of claim 21, further defined as a process of producing hybrid corn seed, comprising crossing a first inbred corn plant with a second, distinct inbred corn plant, wherein the first or second inbred corn plant is a plant of the corn variety I390185, wherein a sample of the seed of the corn variety I390185 was deposited under ATCC Accession No. PTA-4493.

23. (Original): The process of claim 22, wherein crossing comprises the steps of:

- (a) planting the seeds of first and second inbred corn plants;
- (b) cultivating the seeds of said first and second inbred corn plants into plants that bear flowers;
- (c) preventing self pollination of at least one of the first or second inbred corn plant;
- (d) allowing cross-pollination to occur between the first and second inbred corn plants; and
- (e) harvesting seeds on at least one of the first or second inbred corn plants, said seeds resulting from said cross-pollination.

24. (Original): Hybrid corn seed produced by the process of claim 23.

25. (Original): A hybrid corn plant produced by growing a seed produced by the process of claim 23.

26-31. (Canceled).

Please add new claims 32-46

32. (New): A method of producing a male sterile corn plant comprising transforming the corn plant of claim 5 with a nucleic acid molecule that confers male sterility.

33. (New): A male sterile corn plant produced by the method of claim 32.

34. (New): A method of producing an herbicide resistant corn plant comprising transforming the corn plant of claim 5 with a transgene that confers herbicide resistance.

35. (New): An herbicide resistant corn plant produced by the method of claim 34.

36. (New): The corn plant of claim 35, wherein the transgene confers resistance to an herbicide selected from the group consisting of glyphosate and phosphinothricin.

37. (New): A method of producing an insect resistant corn plant comprising transforming the corn plant of claim 5 with a transgene that confers insect resistance.

38. (New): An insect resistant corn plant produced by the method of claim 37.

39. (New): The corn plant of claim 38, wherein the transgene encodes a *Bacillus thuringiensis* endotoxin.

40. (New): A method of producing a disease resistant corn plant comprising transforming the corn plant of claim 5 with a transgene that confers bacterial, fungal or viral disease resistance.

41. (New): A disease resistant corn plant produced by the method of claim 40.

42. (New): A method of introducing a desired trait into corn inbred line I390185 comprising:

- (a) crossing I390185 plants grown from I390185 seed, representative seed of which has been deposited under ATCC Accession No. PTA-4493, with plants of another corn line that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from the group consisting of male sterility, herbicide resistance, insect resistance, fungal disease resistance, bacterial disease resistance and viral disease resistance;
- (b) selecting F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
- (c) crossing the selected progeny plants with the I390185 plants to produce backcross progeny plants;
- (d) selecting for backcross progeny plants that have the desired trait and traits of corn inbred line I390185 listed in Table 3 to produce selected backcross progeny plants; and
- (e) repeating steps (c) and (d) four or more times in succession to produce selected fifth or higher backcross progeny plants that comprise the desired trait and all of the traits of corn inbred line I390185 listed in Table 3 as determined at the 5% significance level when grown in the same environmental conditions.

43. (New): A plant produced by the method of claim 42, wherein the plant has the desired trait and all of the traits of corn inbred line I390185 listed in Table 3 as determined at the 5% significance level when grown in the same environmental conditions.

44. (New): The plant of claim 43, wherein the desired trait is herbicide resistance and the resistance is conferred to an herbicide selected from the group consisting of: glyphosate and phosphinothricin.

45. (New): The plant of claim 43, wherein the desired trait is insect resistance and the insect resistance is conferred by a transgene encoding a *Bacillus thuringiensis* endotoxin.

46. (New): The plant of claim 43, wherein the desired trait is male sterility and the trait is conferred by a nucleic acid that confers male sterility.